

RAW SEQUENCE LISTING

ERROR REPORT

COGO/1091 HILNED HOIL

The Biotechnology Systems Branch of the Scientific and Technical Information
Center (STIC) detected errors when processing the following computer restable

(STIC) detected errors when processing the following computer restables

(STIC) detected errors when processing the following computer restables

(STIC) detected errors when processing the following computer restables

(STIC) detected errors when processing the following computer restables

(STIC) detected errors when processing the following computer restables

(STIC) detected errors when processing the following computer restables

(STIC) detected errors when processing the following computer restables

(STIC) detected errors when processing the following computer restables

(STIC) detected errors when processing the following computer restables

(STIC) detected errors when processing the following computer restables

(STIC) detected errors when processing the following computer restables

(STIC) detected errors when processing the following computer restables

(STIC) detected errors when processing the following computer restables

(STIC) detected errors when processing the following computer restables

(STIC) detected errors when processing the following computer restables

(STIC) detected errors when processing the following computer restables

(STIC) detected errors when processing the following computer restables

(STIC) detected errors when processing the following computer restables

(STIC) detected errors when processing the following computer restables

(STIC) detected errors when processing the following computer restables

(STIC) detected errors when processing the following computer restables

(STIC) detected errors when processing the following computer restables

(STIC) detected errors when processing the following computer restables

(STIC) detected errors when processing the following computer restables

(STIC) detected errors when processing the following computer restables

(STIC)

Application Serial Number: Source: Date Processed by STIC:

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS. PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

http://www.uspto.gov/web/offices/pac/checker

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail. Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom. Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

- 1. EFS-Bio (<a href="http://www.uspto.gov/ebc/efs/downloads/documents.htm">http://www.uspto.gov/ebc/efs/downloads/documents.htm</a>, EFS Submission User Manual - ePAVE)
- 2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
- 3. Hand Carry directly to:

U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202

U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two. 2011 South Clark Place, Arlington, VA 22202

4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office. Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 04/24/2003



1600

RAW SEQUENCE LISTING

DATE: 07/31/2003

PATENT APPLICATION: US/09/911,826A

TIME: 15:09:31

Input Set : A:\pto.da.txt

Output Set: N:\CRF4\07312003\I911826A.raw

```
3 :110 - APPLICANT: ROTIN, Daniela
```

PHAM, Nam

 $6 \pm 120$  > TITLE OF INVENTION: RAS Activator Nucleic Acid Molecules, Polypeptides and

Methods of Use

9 <130> FILE REFERENCE: DWW-5001-US

11 -: 140> CURRENT APPLICATION NUMBER: 09/911,826A

## C--> 12 <141> CURRENT FILING DATE: 2001-07-20

14 - 150> PRIOR APPLICATION NUMBER: 2,259,830

15 <151> PRIOR FILING DATE: 1999-01-20

17 <160> NUMBER OF SEQ ID NOS: 28

19 <170> SOFTWARE: PatentIn Ver. 2.1

## ERRORED SEQUENCES

(Nager Smply Imager of A Macdon pp 1-4

1554 <210> SEQ ID NO: 28 1556 <211> LENGTH: 149 1558 <212> TYPE: PRT 1560 <213> ORGANISM: Mus musculus 1564 <400> SEQUENCE: 28

1566 Gly Gly Lys Asp Val Ser Ala Glu Ala Glu Ser Ser Ser Met Val Pro 10 1570 Val Thr Thr Glu Glu Ala Lys Pro Val Pro Met Pro Ala His Ile Ala

25

1574 Val Thr Pro Ser Thr Thr Lys Gly Leu Ile Ala Arg Lys Glu Gly Arg 40

1578 Tyr Arg Glu Pro Pro Pro Thr Pro Pro Gly Tyr Val Gly Ile Pro Ile 55

1582 Ala Asp Phe Pro Glu Gly Pro Cys His Pro Ala Arg Lys Pro Pro Asp

1586 Tyr Asn Val Ala Leu Gln Arg Ser Arg Met Val Ala Arg Pro Thr Glu

1590 Ala Pro Ala Pro Gly Gln Thr Pro Pro Ala Ala Ala Ala Ser Arg Pro

1594 Gly Ser Lys 'Pro Gln Trp His Lys Pro Ser Asp Ala Asp Pro Arg Leu 120

1598 Ala Pro Phe Gln Ala Gly Phe Ala Gly Ala Glu Glu Asp Glu Asp Glu 1.30 135

1602 Gln Val Ser Ala Val

1603 145/ E--> 1604/1 E--> 1606(29)

Velite

Del pp 2-3 formore mois

<210 - 4 <211 > 286 <212 > PRT <213 > Homo sapiens

<400> 4
Thr Lys Gly Asn Lys Ser Trp Ser Ser Thr Ala Val Ala Ala Ala Leu
1 5 10 15

Glu Leu Val Asp Pro Pro Gly Cys Arg Asn Ser Ser Gly Gly Lys Asp 20 25 30

Val Ser Ala Glu Ala Glu Ser Ser Ser Met Val Pro Val Thr Thr Glu
35 40 45

Thr Thr Lys Gly Leu Ile Ala Arg Lys Glu Gly Arg Tyr Arg Glu Pro 65 70 75 80

Pro Pro Thr Pro Pro Gly Tyr Val Gly Ile Pro Ile Ala Asp Phe Pro 85 90 95

Glu Gly Pro Cys His Pro Ala Arg Lys Pro Pro Asp Tyr Asr. Val Ala 100 105 110

Leu Gln Arg Ser Arg Met Val Ala Arg Pro Thr Glu Ala Pro Ala Pro 115 120 125

Gly Gln Thr Pro Pro Ala Ala Ala Ala Ser Arg Pro Gly Ser Lys Pro 130 135 140

Gln Trp His Lys Pro Ser Asp Ala Asp Pro Arg Leu Ala Pro Phe Gln 145 150 155 160

Ala Ala Ser His Ser Gly Thr Ser Pro Ala Thr Gln Thr His Ala Ser 165 170 175

Arg Pro Ser Arg Gln Ala Ser Gln Glu Arg Arg Arg Thr Lys Met Asn 180 185 190

Lys Cys Leu Leu Phe Glu Ala Gln Ala Pro(Xaa) Ser Thr Val Ser His

Pro Lys Glu Ser Thr Arg Arg Arg Pro Lys Pro Trp Ser Leu Gly Thr 210 220

His Ile (Xaa) Gly Trp Trp Thr Ser Leu Pro Pro Ser Leu Pro Xaa Ser 225

Ser Met Gly Leu Leu Pro Phe Phe Leu Ser Pro Leu His Val Lys 245 250 255

Tyr Cys Glu Glu Ile Ala Leu Ala Leu Cys Arg Leu Val Ala (Xaa) Asn 260 265 270

Jup 4 Joseph 4 Splanetier Ala Gln Pro Ser Ser Pro Xaa Ala Ala Ala Cys His Val Thr 275 280 280

sup4

VARIABLE LOCATION SUMMARY

PATENT APPLICATION: US/09/911,826A

DATE: 07/31/2093 TIME: 15:09:32

errel explanation

Input Set : A:\pto.da.txt

Output Set: N:\CRF4\07312003\1911826A.raw

Use of n's or Xaa's (NEW RULES):

Use of n's and/or Xaa's have been detected in the Sequence Listing.

Use of <220> to <223> is MANDATORY if n's or Xaa's are present.

in <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

Seq#:4; Xaa Pos. 203,227,239,271,279

Seq#:5; Xaa Pos. 16,18,45,59,61,151,166,215

Seq#:6; Xaa Pos. 1.35,123,178,239

Seq#:15; Xaa Pos. 50

These sequeres are errored, too.

VERIFICATION SUMMARY

DATE: 07/31/2003

PATENT APPLICATION: US/09/911,826A

TIME: 15:09:32

Input Set : A:\pto.da.txt

Output Set: N:\CRF4\07312003\I911826A.raw

L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:407 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1

 $\label{eq:limit} L:1236~M:258~W:~Mandatory~Feature~missing,~<221>~Tag~not~found~for~SEQ~ID\#:15$ L:1236 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:15

L:1236 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:48

L:1604 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:28 M:332 Repeated in SeqNo=28